

NOTE: THIS STRUCTURE IS NOT APPLICABLE FOR SITES WITH SANDY SOILS.

NOTES:

1. THE MAXIMUM OVERFALL (F) FOR THIS STRUCTURE SHALL BE 4 FEET. THE MAXIMUM NOTCH DEPTH (H) SHALL BE 2 FEET AND SHALL NOT EXCEED 3/4 OF OVERFALL.
2. MAXIMUM FLOW OVER WEIR SHALL BE 30 CFS.
3. WIRE PANELS SHALL BE GALVANIZED STEEL COMMERCIAL LIVESTOCK PANELS. MINIMUM OVERLAP SHALL BE 1'. WIRE PANELS SHALL BE WIRED TO POSTS DURING INSTALLATION.
4. METAL POSTS SHALL BE 3" OUTSIDE DIAMETER GALVANIZED STEEL OR GOOD QUALITY OIL WELL PIPE. POSTS SHALL BE DRIVEN AT LEAST 3 FEET BELOW BOTTOM OF WIRE PANEL.
5. GEOTEXTILE SHALL BE PLACED BETWEEN ALL SOIL AND RIPRAP CONTACT. GEOTEXTILE SHOULD BE LAID LOOSELY AND RIPRAP PLACED CAREFULLY ON THE FABRIC TO ENSURE THAT THE GEOTEXTILE IS NOT TORN OR PUNCTURED.
6. THE GEOTEXTILE SHALL BE NON-WOVEN, NEEDLE-PUNCHED, ULTRAVIOLET RESISTANT WHICH MEETS OR EXCEEDS THE FOLLOWING REQUIREMENTS:

APPARENT OPENING SIZE	#40 MAX.
BURST STRENGTH	320 PSI MIN.
TENSILE STRENGTH	180 POUNDS MIN.
PERMITTIVITY	0.7 SEC ⁻¹ MIN.
7. RIPRAP SIZE SHALL BE AT LEAST D50 = 6" AND SHALL BE POORLY GRADED (ALL THE FINES REMOVED).
8. TILE OUTLETS SHALL NOT BE ROUTED THROUGH THE STRUCTURE.
9. WEIR LENGTH (W) SHALL BE IN MULTIPLES OF 2 FEET.
10. NO EARTH FILL WILL BE ALLOWED IN EXCAVATED TRENCH. ALL EXCAVATION SHALL BE FILLED WITH RIPRAP.

CONSTRUCTION DATA

WEIR LENGTH "W" =	_____	FEET
NOTCH DEPTH "H" =	_____	FEET
OVERFALL "F" =	_____	FEET
WEIR ELEV. =	_____	
WINGWALL ELEV. =	_____	
CHANNEL ELEV. =	_____	
EMERGENCY ELEV. =	_____	
TOP OF LEVEE ELEV. =	_____	

ESTIMATED QUANTITIES

WIRE PANELS 16 'x _____ "	_____	EACH
POSTS 3" x _____ '	_____	EACH
POSTS 3" x _____ '	_____	EACH
GEOTEXTILE FABRIC:	_____	SQ YD
RIPRAP:	_____	TONS
SEEDING & MULCHING:	SUM	JOB
OTHER:	_____	

NOT TO SCALE

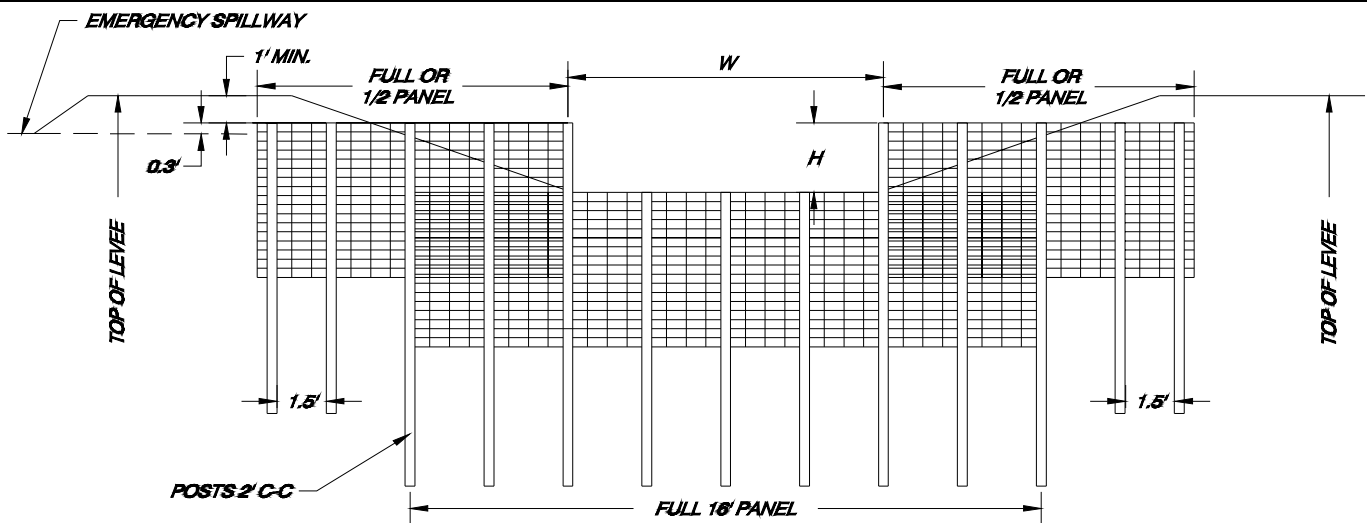
LANDUSER _____
 COUNTY SWCD, INDIANA
 LOCATION _____

WIRE PANEL DROP STRUCTURE

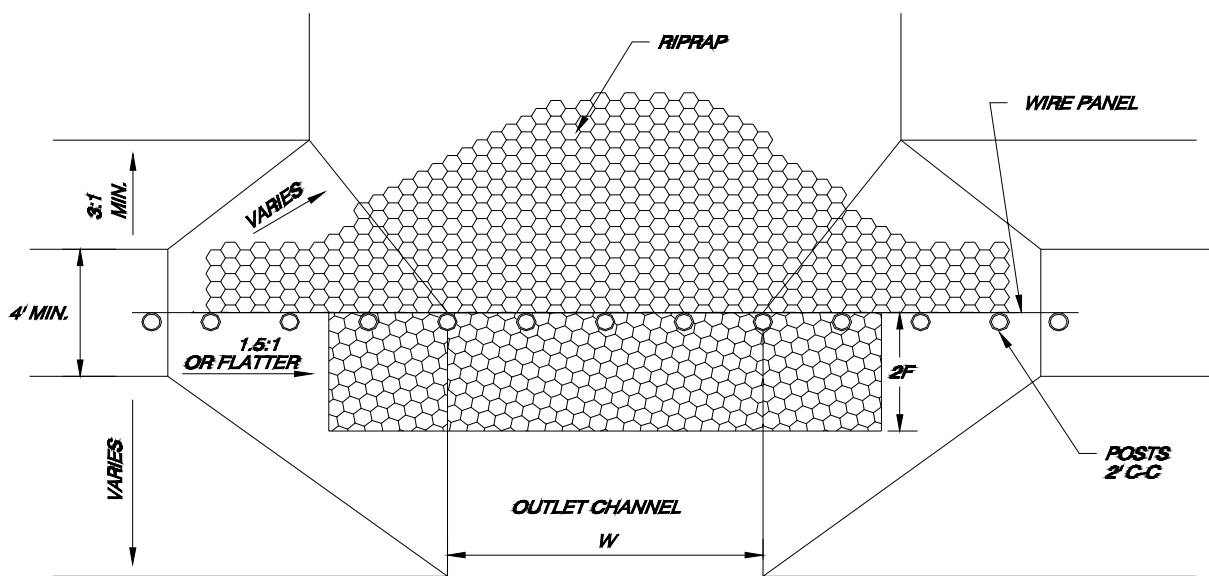
GENERAL LAYOUT
 INDIANA

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

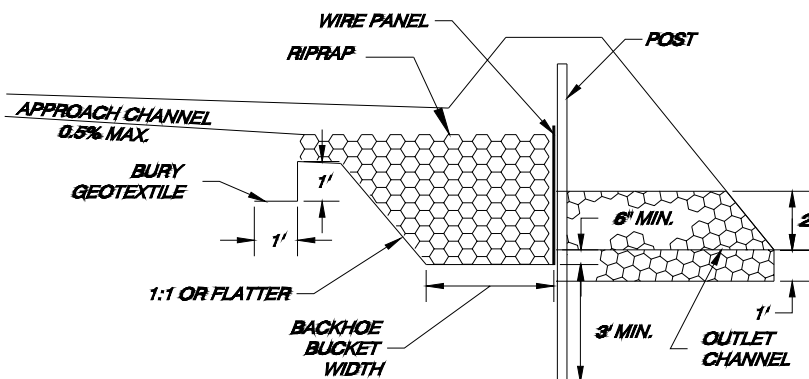
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TYPICAL SECTION LOOKING UPSTREAM



PLAN VIEW



PROFILE

NOT TO SCALE

NOT TO SCALE

LANDUSER	_____
LOCATION	COUNTY SWCD, INDIANA

WIRE PANEL DROP STRUCTURE

DETAILS
INDIANA

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

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General

Construction operations shall be carried out in such a manner and sequence that erosion and air and water pollution will be minimized and held within acceptable limits. All operations shall be carried out in a safe and skillful manner. Safety and health regulations shall be observed and appropriate safety measures used.

The completed job shall conform to the lines, grades, and elevations shown on the drawings or as staked in the field.

Site Preparation

All trees, stumps, brush, and similar materials shall be removed from the construction area and disposed of in a manner consistent with environmental concerns and proper functioning of the structure.

Excavation

To the extent needed, all suitable materials removed from the specified excavation shall be used in the construction of the earth fill areas of the structure. All spoil deposited adjacent to the structure and in the adjacent area shall have a positive grade to drain toward the structure.

Moisture Control

The minimum moisture content of the fill material and foundation shall be such that when kneaded in the hands, the fill material will form a ball which does not readily separate. The maximum moisture content is when conditions are too wet for efficient use of the hauling and compaction equipment.

Construction Tolerances	
Structure Dimensions:	±0.2 foot
Earthwork and Riprap:	
Elevations:	
Top of Levee:	Grade or above
Channel Outlet:	±0.2 foot
Side Slopes:	±0.2 ft./ft.
Widths:	-0 foot, +1.0 foot

Finish and Cleanup

The waterway and the designated spoil areas will be finished in a relatively smooth condition ready for seeding. All rocks and roots 3" in diameter or larger shall be removed from the waterway and spoil areas.

Vegetative Establishment

Where excess surface water runoff is a problem, water shall be directed away until vegetation is established, if possible. Any protective works installed shall be removed after vegetation is established, and the disturbed area shall be seeded to permanent grass.

Work the lime and fertilizer into the soil to a depth of 2-3 inches with a harrow or disk. Prepare a firm seedbed with a cultipacker or cultipacker-type seeder or seed with a no-till drill. Plant the seed to a depth of 1/4 to 1/2 inch.

When summer or fall temporary seeding has been used, remove or incorporate temporary cover (or seed with a no-till drill) after August 10 (summer) or March 1 (fall). Apply lime, fertilizer, mulch, and seed in a normal manner.

Unless soil tests indicate otherwise, apply lime and fertilizer as indicate below. In addition, apply mulch, seed, and temporary seeding as indicated in the following tables.

Seeding Type	Rate (lb/ac.)

Mulch Type	Rate (ton/ac.)

Temporary Seeding Type	Rate (lb/ac.)

Lime	Rate (ton/ac.)	Or to a pH of:

Fertilizer	Rate (lb/ac.)	Type:
		12-12-12 or equiv.

Date	Lime	Fertilizer	Mulch	Seed	Temp. Seed
3/1-5/10	Yes	Yes	Yes	Yes	No
5/11-8/9	Yes	1/3 of rate	No	No	Yes
8/10-9/30	Yes	Yes	Yes	Yes	No
10/1-11/15	Yes	1/3 of rate	No	No	Yes
11/15-2/28	Yes	Yes	Yes	*	No

* Apply 150% of regular rates as a dormant seeding under mulch. Do not apply clover seed.

Operations and Maintenance

A maintenance program shall be established by the landuser to maintain the capacity and vegetative cover. Items to consider are:

1. Do not graze seeded areas during establishment and when conditions are wet.
2. Protect structure from damage by farm equipment and vehicles.
3. Keep structure inlet and outlet areas free from any obstructions.
4. Repair structure as soon as possible after damage is noted.
5. Reestablish vegetative cover immediately where scour erosion has removed the established seeding.
6. Maintain effective erosion control of the contributing watershed to prevent siltation and loss of capacity.
7. Add riprap as needed to maintain weir crest elevation.

LANDUSER	_____
	COUNTY SWCD, INDIANA
LOCATION	_____

WIRE PANEL DROP STRUCTURE

CONSTRUCTION SPECIFICATIONS / O&M
INDIANA

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Designed	Date	Approved by	Date
Drawn	Title
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